

# Ultrasound Course for the Diagnosis and Management of Developmental Dysplasia of the Infant Hip (using the Graf Method)

**Basic and Advanced Courses  
(Cardiff, Dublin, Glasgow and London)**

## PROFILES OF CORE FACULTY

**Dr Sally Scott**

**MBBS, FRCR**

*Retired Consultant Radiologist; Founder of the Ultrasound for DDH using the Graf Method Course in the UK*

Dr Scott is a retired Consultant Radiologist who pioneered the introduction of infant hip ultrasound screening in the UK, establishing early services at Dorset County Hospital. She holds the FRCR qualification and has contributed to DDH imaging and education for more than three decades. Her course in the UK has been run in Dorset for over 25 years and has trained a large number of radiologists, radiographers, orthopaedic surgeons and sonographers in the Graf method. She continues to mentor clinicians, participate in advisory work and support protocol standardisation for DDH ultrasound screening. Dr Scott remains highly regarded internationally for her leadership in hip-ultrasound education and screening service development.

**Mr Sandeep Hemmadi**

**MBBS, MS (Orthopaedics), FRCS (Glasgow), FRCS (T&O)**

*Consultant Orthopaedic Surgeon, University Hospital of Wales, Cardiff*

Mr Hemmadi is a Consultant Orthopaedic Surgeon at the University Hospital of Wales, Cardiff, with subspecialty interests in adult foot and ankle surgery and paediatric orthopaedics. He holds MBBS and MS (Orthopaedics) degrees from Bombay University, followed by FRCS (Glasgow) and FRCS (Trauma & Orthopaedics). He serves as Clinical Board Director for Clinical Diagnostics and Therapies and Regional Specialty Professional Adviser for Orthopaedics in South Wales. He is the Convenor of the Cardiff and Glasgow Ultrasound for DDH using the Graf Method Course, which trains clinicians in high-standard infant hip ultrasonography. He also leads the International Graf Ultrasound Course and contributes extensively to orthopaedic education, training, and governance.

**Dr Claudia Maizen**

**MD, FRCS (T&O)**

*Consultant Paediatric Orthopaedic Surgeon, Barts Health NHS Trust, London*

Dr Maizen is a Consultant Paediatric Orthopaedic Surgeon at The Royal London Hospital (Barts Health), specialising in DDH, hip preservation and neuromuscular orthopaedics. She is a founding member of the International Interdisciplinary Consensus Committee for DDH Evaluation (ICODE) and convenes the London Ultrasound for DDH using the Graf Method course, leading both theoretical and practical teaching. Her humanitarian work spans Africa and Mongolia where she provides surgical treatment and trains local surgeons, and her academic contributions include over 40 publications and global course leadership. She is recognised internationally for her contributions to DDH education, training, guideline development and paediatric orthopaedic capacity building.

**Ms Clare Carpenter****BSc, MB BCH, MRCS, FRCS (T&O)****Consultant Paediatric Orthopaedic Surgeon, Noah's Ark Children's Hospital for Wales, Cardiff**

Ms Carpenter is a Consultant Paediatric Orthopaedic Surgeon at Noah's Ark Children's Hospital for Wales, specialising in paediatric trauma and hip disorders. She is a key member of the paediatric orthopaedic service within Cardiff and Vale University Health Board. Her clinical work focuses on the diagnosis and management of DDH and lower limb deformities in children. She also serves as the Training Programme Director for Trauma & Orthopaedics in Wales, supports extensive medical-school teaching at Cardiff University, and serves on the Advanced Surgical Studies Education Board of Doctors Academy. Ms Carpenter is a core faculty member of the Ultrasound for DDH using the Graf Method course, supporting anatomical and clinical teaching for DDH imaging.

**Dr Ailbhe Tarrant****MB MSc AFRRCSI FFRRCSI****Consultant Paediatric Radiologist, Children's Health Ireland at Temple Street and The Rotunda Hospital, Dublin**

Dr Tarrant is a Consultant Paediatric Radiologist working across Children's Health Ireland at Temple Street and The Rotunda Hospital in Dublin, specialising in neonatal and paediatric imaging including DDH. She has completed advanced fellowship training in fetal/neonatal imaging. Her clinical expertise encompasses high-resolution infant hip ultrasound, neonatal musculoskeletal imaging and protocol development. Dr Tarrant is a core faculty member of the Ultrasound for DDH using the Graf Method Course, where she provides expert instruction in imaging technique, interpretation and quality assurance. She contributes to radiology education, multi-disciplinary hip screening programmes, and imaging protocol development across Ireland and the UK.

**Dr Thara Persaud****BSc, MB BCH BAO (RCSI), FFR RCSI****Consultant Paediatric Radiologist, Children's Health Ireland (Temple Street and Tallaght), Dublin**

Dr Persaud is a Consultant Paediatric Radiologist within Children's Health Ireland, practising across the Temple Street and Tallaght campuses. She graduated from the Royal College of Surgeons in Ireland and completed her Fellowship of the Faculty of Radiologists (RCSI) with subspecialty training in paediatric radiology. Her professional interests include DDH imaging, musculoskeletal ultrasound, and radiology education. She is a core faculty member of the Ultrasound for DDH using the Graf Method Course, where she teaches image acquisition and quality assurance. Dr Persaud is also involved in international consensus work on DDH imaging standards.

**Mr Phillip Thomas****MB BS, FRCS (Eng), FRCS (T&O)****Consultant Orthopaedic and Hip Surgeon, University Hospital of Wales, Cardiff**

Mr Thomas is a Consultant Orthopaedic and Hip Surgeon at the University Hospital of Wales, specialising in paediatric, adolescent, and adult hip disorders. A graduate of St Thomas's Hospital, London, he completed fellowship training in paediatric orthopaedics at The Hospital for Sick Children, Toronto. He serves as PROMs Lead for Wales and an Honorary Lecturer at Cardiff University. His interests include hip arthroscopy, osteotomy, and joint preservation surgery. He is a core faculty member of the Ultrasound for DDH using the Graf Method Course, contributing to hands-on instruction and clinical correlation in infant hip imaging.

**Dr Konstantinos Chlapoutakis****MD****Consultant Radiologist, Vioapeikonisi Imaging Lab & Asklepieon Medical Clinic, Heraklion, Greece**

Dr Chlapoutakis is a Consultant Radiologist based in Heraklion, Crete, specialising in musculoskeletal and paediatric imaging with a focus on DDH. He holds an MD and completed residency training in diagnostic radiology in Greece. He is an established instructor of the Graf ultrasound technique and teaches internationally on DDH imaging. His research includes studies on sonographic quality assurance and standardisation of the Graf method. Dr Chlapoutakis is internationally recognised for his expertise in DDH ultrasound and education.

**Mr Simon Humphry**  
**BSc (Hons), MBBS, FRCS (T&O)**  
**Consultant Orthopaedic Surgeon, Swansea Bay University Health Board**

Mr Humphry is a Consultant Orthopaedic Surgeon with Swansea Bay University Health Board, specialising in paediatric hip assessment and orthopaedic trauma. He holds FRCS (T&O) and is recognised for his research on selective referral for DDH, including the Bone & Joint Journal paper 'The Clicky Hip: To Refer or Not to Refer?'. His work supports UK national DDH screening protocols. He contributes to regional orthopaedic education and governance initiatives. Mr Humphry remains active in paediatric hip service development across Wales.

**Miss Anouska Ayub**  
**MBBS, MSc (Medical Education), FRCS (T&O)**  
**Consultant Paediatric Trauma & Orthopaedic Surgeon, The Royal London Hospital, Barts Health NHS Trust, London**

Ms Ayub is a Consultant Paediatric Trauma & Orthopaedic Surgeon based at The Royal London Hospital (Barts Health NHS Trust), with a subspecialty focus in paediatric trauma, hip preservation and orthopaedic education. She sits on the Education Committee of the British Society of Children's Orthopaedic Surgery (BSCOS) and is widely involved in national training courses and professional development programmes for orthopaedic surgeons. Her work includes delivering teaching on paediatric orthopaedics, contributing to viva and examination preparation, and mentoring the next generation of surgeons. Ms Ayub is committed to advancing multidisciplinary teamwork, training excellence and surgical education in the field of paediatric orthopaedics.

**Miss Claire Murnaghan**  
**FRCS (T&O)**  
**Consultant Paediatric Orthopaedic Surgeon, Royal Hospital for Children, Glasgow**

Miss Murnaghan is a Consultant Paediatric Orthopaedic Surgeon at the Royal Hospital for Children, Glasgow, with extensive experience in paediatric trauma and developmental hip disorders. She has been in post since 2009, following orthopaedic training in the West of Scotland and paediatric fellowships at Great Ormond Street Hospital and the Royal National Orthopaedic Hospital, Stanmore. She manages a broad paediatric practice, including DDH, Perthes disease, limb deformities, and trauma. Miss Murnaghan serves as a Clinical and Educational Supervisor for orthopaedic trainees in the West of Scotland and has chaired the regional Subspecialty Training Committee. She is also an Honorary Clinical Senior Lecturer at the University of Glasgow, contributing extensively to undergraduate and postgraduate medical education, training, and multidisciplinary paediatric orthopaedic service development across the UK.

**Miss Alexandra Smith**  
**FRCS (T&O), MSc (Orthopaedic Engineering)**  
**Consultant Orthopaedic Surgeon, Royal Hospital for Children, Glasgow**

Miss Smith is a Consultant Orthopaedic Surgeon at the Royal Hospital for Children, Glasgow, specialising in paediatric trauma, sports injuries, and lower limb deformity. Following her specialist training, she undertook fellowships in paediatric orthopaedics at Oxford and in sports injuries at Boston Children's Hospital (Harvard). Her clinical practice features a dedicated paediatric trauma and adolescent knee clinic, including knee arthroscopy, injury prevention and reconstructive surgery for growing children. Her research and teaching activities focus on biomechanics of the paediatric musculoskeletal system, paediatric injury prevention strategies and integration of engineering principles into orthopaedic practice. She is actively involved in orthopaedic training, educational programme design, and supervises trainees in children's orthopaedics and sports injury surgery.

**Miss Kim Ferguson**  
**FRCS (T&O), MSc**  
**Consultant Paediatric Orthopaedic Surgeon, Royal Hospital for Children, Glasgow**

Miss Ferguson graduated in medicine from the University of Glasgow and completed the majority of her orthopaedic specialist training in the West of Scotland. She completed advanced fellowships in paediatric orthopaedics, including visiting fellowships in the United States (University Hospital Iowa/Ponseti Clinic and Shriners Hospital Philadelphia) and a limb reconstruction fellowship, with a focus on complex deformity and

lengthening surgery. Her clinical practice spans correction of limb deformities, limb lengthening, complex paediatric trauma and multi-disciplinary reconstruction. She is a key member of Scotland's limb-reconstruction service, contributing to national paediatric orthopaedic networks and multidisciplinary care pathways, and has a strong role in trainee education, including teaching, supervision and service-improvement initiatives in children's orthopaedics. Miss Ferguson combines advanced surgical expertise with commitment to paediatric orthopaedic education, training future surgeons and improving standards of care.

**Mr Joe O'Beirne**

**MB BCh (NUI), MChOrth (Liverpool), FRCSI, FRCS (Edin)**

**Consultant Paediatric Orthopaedic Surgeon, University Hospital Waterford, Ireland**

Mr O'Beirne is a Consultant Paediatric Orthopaedic Surgeon at University Hospital Waterford, Ireland, where he leads in the management of developmental hip disorders and participates in infant hip ultrasound screening programmes. His clinical interests include DDH, paediatric hip disorders, ultrasound-guided infant hip assessment and musculoskeletal ultrasound. He has contributed to national and international consensus statements and educational programmes on DDH ultrasound screening and service pathways in Ireland. Mr O'Beirne is recognised for his leadership in paediatric orthopaedic education, infant hip imaging standards and trainee development in orthopaedics.

**Professor Sandeep Patwardhan**

**MBBS, MS (Orthopaedics), D.Orth**

**Professor and Head of Paediatric Orthopaedics, Sancheti Institute for Orthopaedics & Rehabilitation, Pune, India**

Professor Patwardhan leads Paediatric Orthopaedics at the Sancheti Institute, Pune, and is a leading authority in paediatric orthopaedic surgery in India. He undertook international fellowships including paediatric orthopaedics at the National University of Health Singapore, traumatology and joint replacement in Germany (Stuttgart), and observational training at U.S. Children's hospitals. He heads the Paediatric Orthopaedics unit at Sancheti Institute, and is considered one of the pioneers of paediatric orthopaedic subspecialty care in Pune. His clinical interests include DDH, clubfoot, limb deformity correction, paediatric trauma, growth-modulation osteotomies and limb lengthening. He is Vice-President of the Paediatric Orthopaedic Society of India, has authored numerous peer-reviewed publications and is internationally recognised for his contributions to orthopaedic research, training and global education initiatives.